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What is claimed is.

[1] A treatment process of a solution containing an organic compound having a fluorocarbon chain (hereinafter said to as the fluorine compound), the process comprising,
adding divalent and trivalent metal salts to said solution,
forming a layered double hydroxide having the fluorine compound between layers to absorb and fix the fluorine compound.

[2] A treatment process of a solution containing the fluorine compound, the process comprising,
adding divalent and trivalent metal salts to said solution,
precipitating a layered double hydroxide having the fluorine compound between layers,
separating a solid part by the solid-liquid separation,
dissolving said separated solid part in an acid, and
separating the fluorine compound or its salt.

[3] The treatment process of the solution containing the fluorine compound according to claims [1] or [2], the process further comprising,
adjusting pH of the solution to more than 4,
precipitating the layered double hydroxide having the fluorine compound between layers.

[4] The treatment process of the solution containing the fluorine compound according to claims [1] or [2], the process further comprising,
adding an alkali to the solution to adjust pH from 4 to 12,
adding divalent and trivalent metal salts to said solution
precipitating the layered double hydroxide having the fluorine compound

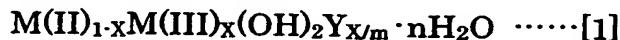
between layers.

[5] The treatment process of the solution containing the fluorine compound according to any one of claims [1] to [4], wherein the divalent metal salt is a salt of magnesium, calcium, zinc, nickel, copper, manganese (divalent), or cobalt (divalent), and the trivalent metal salt is a salt of aluminum, iron, chromium, manganese (trivalent), cobalt (trivalent), potassium, lanthanum, or scandium.

[6] The treatment process of the solution containing the fluorine compound according to any one of claims [1] to [5], wherein the divalent and the trivalent metal salts are chlorides.

[7] The treatment process of the solution containing the fluorine compound according to any one of claims [1] to [6], wherein the fluorine compound is carboxylic acid or sulfonic acid having the fluorocarbon chain, in which the number of carbon is more than 5.

[8] The treatment process of the solution containing the fluorine compound according to any one of claims [1] to [7], wherein the layered double hydroxide having the fluorine compound between layers is shown in the following formula [1].



where, Y is an anion having valence number m of the fluorine compound having the fluorocarbon chain, M(II) is a divalent metal ion, M(III) is a trivalent metal ion, X is 0.1 to 0.5, and n is 0 or positive integer.

[9] A treatment process for recovering the fluorine compound and its salts, the process comprising,
precipitating the layered double hydroxide by the treatment process

according to any one of claims [1] to [7],
recovering the solid part by the solid-liquid separation,
dissolving said recovered solid part in a mineral acid to recover the
separated fluorine compound or its salts, or
heating said mineral acid dissolving the recovered solid part,
putting quietly to separate an oil layer, and
taking out the oil layer to recover the fluorine compound and its salts.

[10] A treatment process for recovering a fluorine compound and its
salts, the process comprising,
precipitating the layered double hydroxide by the treatment process
according to any one of claims [1] to [7],
recovering the solid part by the solid-liquid separation,
dispersing the recovered solid part to an organic solvent, and
filtering an insoluble part from said solvent.

[11] A layered double hydroxide shown by above-mentioned formula
[1], which contains the fluorine compound between layers and is formed by
adding the divalent and trivalent metal salts to the solution containing the
fluorine compound having the fluorocarbon chain.